

**Patent claims****Sealing ring for a vehicle wheel**

5 1. A sealing ring (8) for a vehicle wheel having a tubeless pneumatic tire (1) with two tire beads (6, 7) which are formed on its radially inner side and by means of which the tubeless pneumatic tire (1) is mounted on the radial outer side of a multiple part rim (2), and having a

10 sealing ring which seals the pneumatic tire (2) radially inward toward the rim (2), is arranged on the radial outer side of the rim (2), extends over the circumference of the rim (2) in the circumferential direction and extends between the two tire beads of the pneumatic tire (1) in the axial direction, characterized in that the sealing ring (8) is configured with a central annular body (30) having a cylindrical inner face for seating on the rim outer face and is configured in each case with a concentric flexible annular limb (31, 32) on both axial sides of the central

15 annular body (30), which limb (31, 32) extends obliquely radially outward in the axial direction from the central annular body (30) to the outside, and in that deformable sealing elements are formed at that end of the limb (31, 32) which points away from the central annular body (30),

20 which sealing elements are configured on the radially inwardly pointing surface of the annular limb (31, 32) so as to extend over the circumference of the annular limb (31, 32).

25 30 2. The sealing ring as claimed in the features of claim 1, deformable sealing elements being configured at that end of the annular limb (31, 32) which points away from the central annular body (30), which sealing elements are configured radially outside the central annular body (30) on the radially inwardly pointing surface of the annular limb

(31, 32) so as to extend over the circumference of the annular limb (31, 32).

3. The sealing ring as claimed in the features of claim 1  
5 or 2, the deformable sealing elements being sealing lips  
(33, 34, 35, 36) which are oriented in the circumferential  
direction, in particular extend over the entire  
circumference of the sealing ring (8).

10 4. The sealing ring as claimed in the features of claim  
1, 2 or 3, the sealing elements being a plurality of, in  
particular from three to six, sealing lips (33, 34, 35, 36)  
which are distributed in the radial direction, oriented in  
the circumferential direction and, in particular, extend  
15 over the entire circumference of the sealing ring (8).

5. The sealing ring as claimed in the features of one or  
more of the preceding claims, the sealing lips (33, 34, 35,  
36) extending away from the limb (31, 32) substantially  
20 perpendicularly with respect to the surface of the limb  
(31, 32).

6. The sealing ring as claimed in the features of one or  
more of the preceding claims, means for reinforcing the  
25 annular body being formed on the central annular body (30)  
between the annular limbs (31, 32).

7. The sealing ring as claimed in the features of claim  
6, the means for reinforcement being one or more radial  
30 elevations which is/are configured on the radial outer side  
of the annular body.

8. The sealing ring as claimed in the features of claim  
7, a hollow space (38) being formed at least in one radial  
35 elevation.

9. The sealing ring as claimed in the features of claim 6, 7 or 8, a reinforcing rib (37) which is oriented in the circumferential direction and, in particular, extends over 5 the entire circumference of the annular body (30) being configured on the radial outer side of the central annular body (30) between the annular limbs (31, 32).

10. The sealing ring as claimed in the features of one or 10 more of the preceding claims, the axial spacing  $c$  between the axial outer sides of the two limbs (31, 32) in a first radial position which corresponds to the radial position of the radially inner ends of the limbs (31, 32) being smaller than the axial bead spacing  $t_1$  of the tire beads (6, 7) in 15 the mounted operating state on the rim (2) in this first radial position, the axial spacing  $e$  between the axial outer sides of the two limbs (31, 32) in a second radial position which corresponds to the radial position of the radially outer ends of the limbs (31, 32) being greater 20 than the axial bead spacing  $t_2$  of the tire beads (6, 7) in the mounted operating state on the rim (2) in this second radial position, and the axial spacing between the axial outer sides of the two limbs (31, 32) in the region of the sealing elements being greater than the axial bead spacing 25  $t_1$  of the tire beads (6, 7) in the mounted operating state on the rim (2) in the first radial position.

11. The sealing ring as claimed in the features of claim 10, the axial spacing between the axial outer sides of the 30 two limbs (31, 32) in the region at least of the radially outer, in particular of all, sealing elements which are configured on the limbs (31, 32) being greater than the respective axial bead spacing of the tire beads (6, 7) in the mounted operating state on the rim (2) in this radial 35 position.

12. The sealing ring as claimed in the features of claim 9 or 10, the difference of the axial spacing between the axial outer sides of the two limbs (31, 32) minus the axial 5 bead spacing of the tire beads (6, 7) in the mounted operating state on the rim (2) in the respectively assigned radial position decreasing in the radial direction from one sealing element to the next sealing element.